PATENT COOPERATION TREATY

	AIENI COOFE.	MALION LINES		
From the INTERNATIONAL SEARCHING AUTH	IORITY	1	REC'D 2 0 JUN 2805	
To: JUNG, Tae Young			PC WIPO PCT	
Muhann Patent & Law Firm 5th Fl., Youngpoong Building 142 Nonhyun-dong, Kangnam-gu Seoul 135-749 Republic of		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY		
Korea	11/8		(PCT Rule 43bis.1)	
		Date of mailing (day/month/year) 3	31 MAY 2005 (31.05.2005)	
Applicant's or agent's file reference FPM-04-0112		FOR FURTHER A	CTION See paragraph 2 below	
International application No. PCT/KR2005/000223 International filing date 27 JANUARY 200)5 (27.01.2005)	Priority date(day/month/year) 30 JANUARY 2004 (30.01.2004)	
International Patent Classification (IPC) IPC7 H05H 1/46	or both national classific	ation and IPC		
Applicant				
CHANGJO ENGINEERING C	O., LTD. et al			
This opinion contains indications relations	ating to the following iter	ms:		
Box No. I Basis of the opi		•		
Box No. II Priority				
Box No. III Non-establishn	nent of opinion with rega	ard to novelty, inventive	step and industrial applicability	
Box No. IV Lack of unity	•			
Box No. V Reasoned state citations and ex	ment under Rule 43bis.1 xplanations supporting su	(a)(i) with regard to not ach statement	velty, inventive step or industrial applicability;	
Box No. VI Certain docum				
	ts in the international app			
Box No. VIII Certain observ	rations on the internations	al application		
International Preliminary Examining other than this one to be the IPEA at opinions of this International Search	g Authority ("IPEA") exc nd the chosen IPEA has n ing Authority will not be	ept that this does not ap notified the International so considered.	considered to be a written opinion of the ply where the applicant chooses an Authority I Bureau under Rule 66.1bis(b) that written	
If this opinion is, as provided above, IPEA a written reply together, where of Form PCT/ISA/220 or before the For further options, see Form PCT/I	e appropriate, with amene expiration of 22 months	dments, before the expir	the applicant is invited to submit to the ration of 3 months from the date of mailing whichever expires later.	
3. For further details, see notes to Form	n PCT/ISA/220.			

Name and mailing address of the ISA/KR



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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/KR2005/000223

ox No. I	Basis of this opinion							
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	This opinion has been	established on t	the basis of a	translation from	m the original furnished for	language into	the following	ig language al search (under
· · · Ē	Rules 12.3 and 23.1(b)).						
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<u> </u>	filed together with t	he internationa	l application	in computer re	adable form.			
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/KR2005/000223

Rox No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or	industrial applicability;
DOX 110. 1	citations and explanations supporting such statement	

1. Statement			
Novelty (N)	Claims		YES
21010119 (21)	Claims	1, 5	МО
Inventive step (IS)	Claims		YES
mvenuve step (13)	Claims	1, 5	NO
Industrial applicability (IA)	Claims	1-28	YES
industria approximation (4.1)	Claims		МО
ł			

2. Citations and explanations:

The following documents are referred to:

D1 EP 1.383 359 A2 D2 JP 11-191500

D1 discloses method and arrangement for generating an atmospheric pressure glow (APG) plasma (1), wherein the plasma (1) is generated in a discharge space (10) between a plurality of electrodes (3, 4) and a dielectric (2) is present on at least one of the electrodes (4), which dielectric (2) has a boundary surface with the plasma (1) enabling interactions between the plasma (1) and the boundary surface of the dielectric (2). The dielectric (2) is arranged for releasing electrons contributing to the plasma (1) from the boundary surface by the interactions.

D2 discloses glow discharge electrodes for performing glow discharge under pressure near atmospheric pressure to obtain stable discharge even under operation for many hours by covering glow discharge electrodes for performing glow discharge under pressure near atmospheric pressure, with alumina sintered ceramic with specific purity or more.

The present claims 1 and 5 discloses a apparatus generating glow plasma on a wide surface under atomospheric pressure with two layers of dielectric material between electrode and the material under process, electrode and auxiliary ground electrode, respectively. The apparatus described in the claims 1 and 5 is regarded to be easily rendered out from D1 and D2; adopting the electrodes covered by dielectric material of D1 into the APG plasma arrangement of D1.

Thus the subject matter of present claims 1 and 5 do not satisfy the criteria set forth in Article 33(2) and (3) PCT because the subject matter of claims 1 and 5 is not new in respect of prior art as defined in the regulations (Rule 64(1)-(3) PCT) and/or does not involve an inventive step (Rule 65(1)(2) PCT).

Thus the subject matter of claims 1 and 5 is neither novel nor inventive.